

Translation

PATENT COOPERATION TREATY

PCT/JP2004/011400



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P34284-P0	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2004/011400	International filing date (day/month/year) 02 August 2004 (02.08.2004)	Priority date (day/month/year) 01 August 2003 (01.08.2003)
International Patent Classification (IPC) or national classification and IPC H01L 27/14, H04N 5/335		
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2.	This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.
3.	This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>6</u> sheets, as follows: <div style="margin-left: 40px;"><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</div> b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4.	This report contains indications relating to the following items: <div style="margin-left: 20px;"><input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application</div>

Date of submission of the demand 11 March 2005 (11.03.2005)	Date of completion of this report 06 June 2005 (06.06.2005)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/011400

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ The international application as originally filed/furnished

☒ the description:

pages _____ 1,2,4-10,14-16,36 _____, as originally filed/furnished

pages* _____ 3,11-13,17 _____ received by this Authority on _____ 11 March 2005 (11.03.2005)

pages* _____ received by this Authority on _____

☒ the claims:

pages _____ 1-8 _____, as originally filed/furnished

pages* _____, as amended (together with any statement) under Article 19

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ the drawings:

pages _____, as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

☒ the description, pages _____ 1-35 _____

☒ the claims, Nos. _____ 9-32 _____

☒ the drawings, sheets/figs _____ 5-30 _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/011400

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	3-5, 7	YES
	Claims	1, 2, 6, 8	NO
Inventive step (IS)	Claims		YES
	Claims	1-8	NO
Industrial applicability (IA)	Claims	1-8	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)**List of cited documents**

Document 1. JP, 2002-261261, A (Toppan Printing Co., Ltd.), September 13, 2002 (09.13.02), Paragraphs 0025-0029 and 0036-0042, Fig. 3 (Family: none)

Document 2. JP, 02-166767, A (Fujitsu Limited), June 27, 1990 (06.27.90), Fig. 4 (Family: none)

Document 3. JP, 2000-180621, A (Sony Corporation), June 30, 2000 (06.30.00), Claims 1 and 2, Paragraphs 0023-0027, Fig. 3 (Family: none)

Document 4. JP, 03-173472, A (Mitsubishi Electric Corporation), July 26, 1991 (07.26.91), Fig. 2 (Family: none)

Document 5. JP, 2003-078917, A (Canon Inc.), March 14, 2003 (03.14.03), Paragraphs 0105 and 0123, Fig. 1 & US, 2003/0063204, A1

Claim 1

Document 1 describes arranging a color filter 51 between a light absorbing layer 63 corresponding to the light shielding means of the invention of the present application and a light reception means. Also, document 2 describes arranging a color filter layer between a black light shielding film and pixels. A film reflecting and shielding an incident light is publicly known as described in document 4.

Claim 2

Document 1 describes a resin lens corresponding to the light collecting means of the invention of the present application.

Claims 3 and 4

Document 3 describes an on-chip color filter comprising a film stack of a titanium oxide film and oxide silicon film; therefore, using this color filter in place of the color of document 1 could be appropriately achieved by a party skilled in the art.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of Box V:

Claim 5

Document 5 describes a color filter comprising a photonic crystal; therefore, using this in place of the color filter of the invention of document 1 could be appropriately achieved by a party skilled in the art.

Claims 6 and 8

Document 5 describes an imaging device using a photonic crystal for an interference filter layer. Also, document 5 describes applying an image pick-up device to a digital camera and the like.

Claim 7

Applying the imaging device described in document 1 to a digital camera as described in document 5 is found to be something that a party skilled in the art can appropriately achieve.